

DATA SHEET

ESPRIMO P7935 E-STAR 5.0

Issue: June 2009

Your expandable workhorse

ESPRIMO P7935 E-Star 5.0

The ESPRIMO P7935 equipped with state-of-the-art Intel® chip and processor technology is the ideal partner for all your demanding business applications. Produced with selected material and equipped with comprehensive powersave options and energy-saving management, the ESPRIMO microtower PC today already meets the environment requirements of tomorrow. With extended system management functions, intelligent hardware design, extensive tests and a lifecycle of up to 18 months, the high performance levels of this PC meet every requirement. Furthermore, this microtower, equipped with an efficient power supply (up to 87%) today already meets ENERGY STAR® 5.0 criteria.

Microtower

Maximum performance and optimal extendability

- Top-quality, high-value microtower, 6 drive bays, 4 PCI/PCI express interfaces

Environmentally compatible product

Your contribution to environmental protection for the continued existence of our planet

- Halogen-free mainboard, sophisticated product concept for the entire lifecycle

Quiet

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized fan concept

System management

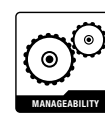
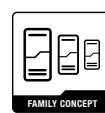
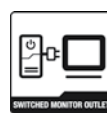
Simple system administration for complex IT infrastructures

- Intel® vPro™ technology

ENERGY STAR® 5.0

Low power consumption and costs with no loss in performance.

- Power supply with up to 87% efficiency and enhanced power management settings



Components

Processor	Intel® Core™2 Quad Q9550 (2.83 GHz, 12 MB , 1333 MHz)
	Intel® Core™2 Quad Q9400 (2.66 GHz, 6 MB , 1333 MHz)
	Intel® Core™2 Quad Q8300 (2.5 GHz, 4 MB , 1333 MHz)
	Intel® Core™2 Duo E8600 (3.33 GHz, 6 MB , 1333 MHz)
	Intel® Core™2 Duo E8500 (3.16 GHz, 6 MB , 1333 MHz)
	Intel® Core™2 Duo E8400 (3.0 GHz, 6 MB , 1333 MHz)
	Intel® Core™2 Duo E7600 (3.06 GHz, 3 MB , 1066 MHz)
	Intel® Core™2 Duo E7500 (2.93 GHz, 3 MB , 1066 MHz)
	Intel® Core™2 Duo E7400 (2.8 GHz, 3 MB , 1066 MHz)
	Intel® Core™2 Duo E7300 (2.66 GHz, 3 MB , 1066 MHz)
	Intel® Pentium® E6300 (2.8 GHz, 2 MB , 1066 MHz)
	Intel® Pentium® E5400 (2.7 GHz, 2 MB , 800 MHz)
	Intel® Pentium® E5300 (2.6 GHz, 2 MB , 800 MHz)
	Intel® Pentium® E5200 (2.5 GHz, 2 MB , 800 MHz)
	Intel® Pentium® E2220 (2.4 GHz, 1 MB , 800 MHz)
	Intel® Celeron® E1500 (2.2 GHz, 512 KB , 800 MHz)
	Intel® Celeron® E1400 (2.0 GHz, 512 KB , 800 MHz)
Memory modules	4 GB (1 module(s) with 4 GB) DDR2, 800 MHz, PC2-6400
	2 GB (2 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400
	2 GB (1 module(s) with 2 GB) DDR2, 800 MHz, PC2-6400
	1 GB (1 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400
Hard disk drives (internal)	SSD SATA, 128 GB, 2.5-inch
	SSD SATA, 64 GB, 2.5-inch
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 3.5-inch, S.M.A.R.T.
Hard disk notes	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
	Supporting NCQ and 3 GBit
Graphics add on cards (optional)	ATI Radeon® HD 3450 256 MB
	Dual DVI / Single Display port adapter
	DVI Extension Adapter
	NVIDIA® GeForce® 9300GE 256 MB
	NVIDIA® GeForce® 9300GE 512 MB
	NVIDIA® GeForce® 9500GS 512 MB
	NVIDIA® Quadro NVS 290 256 MB
Modular bay options	1.44 MB Floppy, standard
	Blu-ray Disc Triple Writer
	DVD-ROM
	DVD Super Multi
Interface add on cards/components (optional)	Parallel Interface
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092
Base unit	ESPRIMO P7935 E-Star5
Mainboard	
Mainboard type	D2812-A2x
Formfactor	µBTX
Chipset	Intel® Q45
Processor socket	LGA 775
Processor quantity maximum	1

Mainboard

System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	16 GB
Memory frequency	800 MHz
Memory notes	With future modules. Dual channel support. For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Intel® 82567LM
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC663
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound

I/O controller on board

Serial ATA total	4
thereof eSATA	2 (optional)
Controller functions	Serial ATA II NCQ and 3 GBit AHCI Raid 1/0

Interfaces

Audio: line-in / microphone	1
Audio: line-in	1
Audio: line-out	1
Front audio: headphone	1
Front audio: microphone	1
USB 2.0 total	12
USB front	2
USB rear	6
USB internal	4, thereof 2 optional rear
VGA	1
DVI	optional
Serial (RS-232)	1 (9pi, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	optional (25pin with EPP and ECP)

Input device / components

Optical USB tilt wheel mouse
Optional: Optical USB/PS2 tilt wheel mouse

Drive bays

Drive bays total	6
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2

Mini PCI slots	
PCI-Express x16	1 x (230 mm) FlexySlot
PCI-Express x4 (mech. x8)	1 x (230 mm) full height
PCI (32-bit / 33 MHz)	2 x (170 / 315 mm) full height

Graphic on board

Graphics brand name	Intel® GMA 4500
Shared video memory	up to 256 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -

Graphic on board

Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
Graphic notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size Resolution (color depth up to 32 Bit/pixel) For TFT we recommend to use 60Hz.

Electrical values

Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 85% / 87% / 85%) 0-Watt mode with hard-off switch
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	300 W
Power factor correction/active power	active
Monitor outlet	No

Power consumption

Power consumption note	see white paper Energy Consumption
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Heat dissipation

Heat dissipation notes	see white paper Energy Consumption
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Noise for standard configuration (HDD, ODD, FDD)

Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8600
Noise Operation mode 1: ODD load (Blue angel requirement)	4.5 B / 30 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 4: High load	3.5 B / 19 dB(A)
Noise Operation mode 5: Office applications	3.5 B / 19 dB(A)
Idle mode (Blue Angel requirement)	3.5 B / 19 dB(A)
Noise notes / description	A weighted sound power level L _{wad} (in B) / workplace related A-weighted sound pressure level L _{pAm} (in dB(A)), Bystander position

Dimensions / Weight / Environmental

Dimension (W x D x H)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg
Weight notes	Weight may vary depending on actual configuration
Operating ambient temperature	15 - 35°C

Compliance

Product	ESPRIMO P7935
Model	MI3W-D2812
Germany	Blauer Engel / Blue Angel GS optional

Compliance

Europe	CE Nordic Swan in progress
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 4.0 in progress EPEAT® in progress ENERGY STAR® 5.0 in progress
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Operating system

Operating system optional preinstalled	Microsoft® Windows Vista® Home Basic Microsoft® Windows Vista® Home Premium Microsoft® Windows Vista® Business 32bit Microsoft® Windows Vista® Business 64bit TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux

Additional Software

Additional software (preinstalled)	Nero Essentials (burning software)
Additional software (optional)	Recovery DVD (Windows® XP / Windows Vista®) Drivers & Utilities DVD (DUDVD) Windows Vista® Drivers & Utilities DVD (DUDVD) Windows® XP
	Keyboard on (Fujitsu keyboard required) Thermal management
Spare part availability	5 years

Compatibility (references)

	DMI 2.0 PC 2001 WMI 1.5 USB 2.0
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Manageability

Manageability features	ASF 2.0 (Alert Standard Format) DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional) PXE 2.1 Boot code BootP Boot Code including Bootmanage Administrator Software (tested) Wake up from S5 (off mode) Intrusion switch (optional) iAMT 5.0
Manageability type	DeskView 10.x client management including:
DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Advanced alerts (ASF implementation) Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
Manageability link	http://ts.fujitsu.com/manageability http://www.altiris.com/fsc

Security

Physical security	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
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Security

System security	Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) - Infineon Control of all USB interfaces External USB ports can be disabled separately Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of external interfaces
User security	User and supervisor BIOS password SystemLock 2 BIOS SmartCard Security Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader

Serviceability

FlexySlot
EasyFix
EasyChange for HDD
EasyChange for optical drives

Packaging information

Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (g) EPS / PS	210 g
Material - Weight (g) PE	appr. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process

Warranty

Standard Warranty	3 years
Service level	(depending on country)
Maintenance and Support Services - the perfect extension	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:

<http://ts.fujitsu.com/aboutus>

Take back and Recycling information:

<http://ts.fujitsu.com/recycling>

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